

IN THE CLAIMS:

Claims 42 and 43 are amended. All of the pending claims are presented below. This listing of claims will replace all prior versions and listings of claims in the application. Please enter these claims as amended.

Listing of Claims:

1. (Previously presented) A method of identifying row type in a barley, comprising the use of at least one molecular marker comprising the nucleotide sequences set forth in any of SEQ ID NOs: 1 to 5, that is linked with a gene that controls row type.
2. (Previously presented) The method of claim 1, wherein the barley is identified as having two-rowed or six-rowed spikes when a molecular marker in the barley shows the same type as a barley that is two-rowed or six-rowed, respectively.
3. (Withdrawn) The method of claim 1, wherein the barley is identified as FHB resistant or FHB susceptible when the molecular marker in the barley shows the same type as a barley that is FHB resistant or FHB susceptible, respectively.
4. (Canceled).
5. (Previously presented) The method of claim 1, comprising the following steps (a) to (d):
 - (a) preparing a DNA sample from a barley;
 - (b) digesting the prepared DNA sample with a restriction enzyme;
 - (c) separating the DNA fragments by size; and
 - (d) comparing the size of a detected DNA fragment with that of a control.

6. (Previously presented) The method of claim 1, comprising the following steps (a) to (d):
 - (a) preparing a DNA sample from a barley;
 - (b) performing a PCR reaction using primer DNAs, with the prepared DNA sample as a template;
 - (c) separating the amplified DNA fragments by size; and
 - (d) comparing the size of a detected DNA fragment with that of a control.
7. (Previously presented) The method of claim 1, comprising the following steps (a) to (e):
 - (a) preparing a DNA sample from a barley;
 - (b) digesting the prepared DNA sample with a restriction enzyme;
 - (c) performing an AFLP reaction using the digested DNA sample as a template;
 - (d) separating the amplified DNA fragments by size; and
 - (e) comparing the detected DNA pattern with that of a control.
8. (Canceled).
9. (Withdrawn) A reagent for identifying row type or Fusarium head blight (FHB) resistance in a barley or related *Triticeae* plant, comprising an oligonucleotide of at least 15 nucleotides that is complementary to a DNA comprising the nucleotide sequence set forth in any of SEQ ID NOS:1 to 5, or a complementary strand thereof.
10. (Withdrawn) A reagent for identifying row type or Fusarium head blight (FHB) resistance in a barley or related *Triticeae* plant, comprising an oligonucleotide comprising the nucleotide sequence set forth in any of SEQ ID NOS:6 and 7.
11. (Withdrawn) The reagent of claim 9, wherein the barley or related *Triticeae* plant is a barley.

12. (Previously presented) A method of generating an artificially altered barley having two-rowed spikes, said method comprising the step of selecting, at an early stage, a plant identified as being two-rowed using the method according to claim 1.

13. (Previously presented) A method of generating an artificially altered barley having six-rowed spikes, said method comprising the step of selecting, at an early stage, a plant identified as being six-rowed using the method according to claim 1.

14. (Withdrawn) A method of generating an artificially altered barley having a trait of FHB resistance, said method comprising the step of selecting, at an early stage, a barley identified as FHB resistant using the method according to claim 1.

15. (Withdrawn) A method of generating an artificially altered barley having a trait of FHB susceptibility, said method comprising the step of selecting, at an early stage, a barley identified as FHB susceptible using the method according to claim 1.

16.-18. (Canceled).

19. (Withdrawn) A barley with FHB resistance, generated by the method of claim 14.

20. (Withdrawn) A barley with FHB susceptibility, generated by the method of claim 15.

21.-32. (Canceled).

33. (Withdrawn) A barley, which is a progeny or clone of the barley of claim 19.

34. (Withdrawn) A reproductive material of the barley of claim 19.

35. (Withdrawn) A reproductive material of the barley of claim 20.
36. (Withdrawn) A barley, which is a progeny or clone of the barley of claim 20.
- 37.-41. (Canceled).
42. (Currently amended) A method of identifying row type in a barley, comprising the use of at least one molecular marker consisting of the nucleotide sequences set forth in any of SEQ ID NOs: 1 to 5, that is linked with a gene that controls row type.
43. (Currently amended) A method of generating an artificially altered barley having two-rowed spikes or six-rowed spikes, said method comprising the steps of:
selecting at an early stage, a plant identified as being a two-rowed barley or a six-rowed barley by the method according to claim [[40]] 42.